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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/764,246	01/23/2004	Donald Allen Pile	R087 1273.1	8048	
7590 04/27/2006 WOMBLE CARLYLE SANDRIDGE & RICE			EXAMINER		
			FELTON, AILEEN BAKER		
P.O. Box 7037 Atlanta, GA 3	0357-0037		ART UNIT	PAPER NUMBER	
,			1755		
			DATE MAILED: 04/27/2006	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

				4/		
-		Application No.	Applicant(s)			
Office Action Summary		10/764,246	PILE ET AL.			
		Examiner	Art Unit			
		Aileen Felton	1755			
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet v	vith the correspondence address -	•		
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING DESIGNATION OF THE MAILING DESIGNATION OF THE MAILING DESIGNATION OF THE PROPERTY OF THE MAILING DESIGNATION OF THE MAILING THE PROPERTY OF THE MAILING T	DATE OF THIS COMMUN 136(a). In no event, however, may a will apply and will expire SIX (6) MO te, cause the application to become a	IICATION. a reply be timely filed DNTHS from the mailing date of this communica ABANDONED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on <u>03 F</u>	<u> April 2006</u> .				
2a) <u></u> ☐	This action is FINAL . 2b)⊠ Thi	s action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.	D. 11, 453 O.G. 213.			
Disposit	ion of Claims					
4)⊠	Claim(s) <u>1-45</u> is/are pending in the application	n.				
	4a) Of the above claim(s) 23-31,42 and 43 is/a	are withdrawn from consid	leration.			
5)	Claim(s) is/are allowed.					
6)⊠	6) Claim(s) <u>1-22,32-41,44 and 45</u> is/are rejected.					
7)	Claim(s) is/are objected to.					
8)	Claim(s) are subject to restriction and/o	or election requirement.				
Applicat	ion Papers					
9)[The specification is objected to by the Examine	er.				
10)	The drawing(s) filed on is/are: a) acc	cepted or b) objected to	by the Examiner.			
	Applicant may not request that any objection to the	e drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correct					
11)	The oath or declaration is objected to by the E	xaminer. Note the attache	ed Office Action or form PTO-152			
Priority (under 35 U.S.C. § 119					
• -	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document and copies of the priority documents.	nts have been received. Its have been received in Dority documents have bee	Application No			
* (application from the International Burea See the attached detailed Office action for a list	•	nt received			
	see the attached detailed Office action for a lis	t of the certified copies fic	ic received.			
Attachmen	rt(s)					
1) Notic	ce of References Cited (PTO-892)		Summary (PTO-413)			
	ce of Draftsperson's Patent Drawing Review (PTO-948)		o(s)/Mail Date Informal Patent Application (PTO-152)			
. —	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 r No(s)/Mail Date	6) Other:				

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DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of groups in the reply filed on 4/3/2006 is acknowledged. The traversal is on the ground(s) that the method claims include all the limitations of the product claims. This is not persuasive since the restriction requirement only requires one-way distinctness, i.e. (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product can be made by dry mixing. Further, rejoinder of the process claims is only proper upon the allowance of the product, see MPEP § 821.04(B).

The requirement is still deemed proper and is therefore made FINAL.

2. Claims 23-31, 42, and 43 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected group, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 4/3/2006.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-22, 32-41, 44, and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable over John, Jr. et al (6,478,903) in view of Brun (2,111,203).

John, Jr. et al discloses the composition substantially as claimed including an oxidizer such as potassium nitrate from 20-70 % (col. 2, lines 50-55), a secondary explosive such as PETN at 3%(col. 4, lines 35-37 and Table 1), a sensitizer such as tetrazene from 4-11 % (col. 4, lines 37-47), and a metallic fuel such as aluminum from 2-20 % (col. 4, lines 55-65). The composition also includes bismuth sulfide as the fuel or inflammable material in the primer mix (col. 2, lines 45-65) but does not mention the use of bismuth oxide.

Brun discloses a primer mix that includes bismuth trioxide as a catalyst (col. 1, lines 39-52).

It would have been obvious to one of skill in the art at the time the invention was made to use the bismuth trioxide as taught by Brun with the composition of John, Jr. et al since Brun suggests that the bismuth trioxide catalyst has been found to be applicable to priming mixtures generally and since John, Jr. et al suggests the use of a bismuth salt for use in priming compositions.

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aileen Felton whose telephone number is 571.272.6875. The examiner can normally be reached on 7:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571.272.1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Aileen Felton

Primary Examiner